



Faculty and students in the Department of Civil Engineering work closely with the organizations and agencies that build and maintain the infrastructure we all depend on. Whether they are testing soil to see how it responds to earthquakes, developing methods to clean our water or designing better materials for roads and buildings, civil engineers are conducting research that has an immediate impact on our way of life.

This department's ties to industry and local government make its work especially relevant to the economy and infrastructure of Arkansas. At the Center for Training Transportation Professionals, civil engineering staff train all government workers and contractors who work on the state's transportation infrastructure. Researchers in the department often partner with local businesses and with the Arkansas State Highway and Transportation Department to solve problems that are most pressing to the region.

Students in this department have received prestigious awards, including the Fulbright Scholarship, the Gates Cambridge Scholarship, the National Science Foundation Graduate Research Fellowship, the Schwarzman Scholarship, the Truman Scholarship and the Dwight D. Eisenhower Transportation Fellowship.

## 2016-2017 STUDENT STATISTICS

Undergraduate

# 302

Graduate

# 49

Female

# 27%

Ethnic Minority

# 19%

First Generation Undergraduate

# 26%

Placement<sup>1</sup>

# 90%

<sup>1</sup>Self reported percentage of students graduating in the past two years who were employed as engineers or attending graduate school within three months of graduating.





## DEPARTMENT HEAD

MICAH HALE

[civil-engineering.uark.edu](http://civil-engineering.uark.edu)

Last Updated 5/8/2017

## RESEARCH AREAS

### ENVIRONMENTAL ENGINEERING

Faculty in this area focus on problems related to the quality of water, air, soils, and sediments. They work in areas such as drinking water treatment and distributions systems, wastewater collection and treatment systems, solid waste disposal, air pollution control, hazardous waste management, contaminated site remediation, water supply management, environmental protection and restoration, and habitat protection and rehabilitation.

### GEOTECHNICAL ENGINEERING

Faculty in this area are active in several areas of geotechnical engineering, including projects on deep foundation design, slope stability, soil dynamics, earthquake engineering, non-destructive evaluation of infrastructure, geo-environmental engineering, unsaturated soil mechanics, discrete element modelling and granular soil behavior.

### STRUCTURAL ENGINEERING

Faculty in this area study fracture and fatigue of materials, prestressed concrete design and performance, concrete materials and mixture proportioning, numerical modelling, wind engineering, airport safety, and airport runway/aircraft compatibility.

### TRANSPORTATION ENGINEERING

Faculty in this area focus on pavements and materials, long range freight planning, pavement management systems, planning and land development, geometric design, traffic and signal design, and capacity analysis. These topics apply to the various modes of transportation such as highways, air, rail and transit.

Tenured and Tenure  
Track Faculty

**16**

## CENTERS

- Center for Training Transportation Professionals
- Mack-Blackwell Transportation Center
- Maritime Transportation Research and Education Center
- Southern Plains Transportation Center

New Research Awards FY 2016

**\$1.6M**

## CHAIRS AND PROFESSORSHIPS

### R. Panneer Selvam

James T. Womble Endowed  
Professorship in Computational  
Mechanics and Nanotechnology  
Modelling

### Kevin Hall

Walter E. Hicks and Blossom Russell  
Hicks Professorship for Infrastructure  
Engineering

### Micah Hale

The Twenty-First Century Endowed  
Leadership Chair in Civil Engineering

## FELLOWS

- Norman Dennis: American Society for Engineering Education, American Society of Civil Engineers
- Findlay Edwards: American Society of Civil Engineers
- Frances Griffith: American Concrete Institute
- Micah Hale: American Concrete Institute
- Ernie Heymsfield: American Society of Civil Engineers
- Mike Johnson: American Society of Civil Engineers, National Academy of Construction, National Academy of Engineering, Society of American Military Engineers
- R. Panneer Selvam: American Society of Civil Engineers